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Professor Patrick Geddes. Lord Rayleigh and Lord Haldane presided on July 4, and among others Principal W. H. Hadow, Sir Edward Busk and Sir George Gibb were on the program. On Friday, when Lord Strathcona presided, Dr. G. R. Parkin and Sir Alfred Keogh dealt with the question of the establishment of a central bureau, Mrs. Sophie Bryant, Mrs. Sidgwick, and others with the position of women in universities, and Sir James Donaldson and Mr. Michael Sadler with the representation of teachers and graduates on the governing body of a university. The entertainments included a luncheon at the invitation of the government, a reception of delegates by Prince Arthur of Connaught at the University of London, dinners at the halls of several city companies and an "At Home" at the Mansion House.

SCIENTIFIC NOTES AND NEWS

CAMBRIDGE UNIVERSITY has conferred the degree of doctor of science upon Edwin Brant Frost, director of the Yerkes Observatory.

AMONG newly created doctors of laws of the University of Edinburgh are Dr. J. S. Phelps, of the Geological Survey, and Professor J. Theodore Cash, F.R.S., professor of materia medica, University of Aberdeen.

DURHAM UNIVERSITY has conferred its doctorate of science on Professor Prafulla Chandra Ray, dean of the faculty of science in the University of Calcutta; Professor L. P. Anderson Stuart, professor of physiology and dean of the faculty of medicine in the University of Sydney.

CAMBRIDGE UNIVERSITY will confer the degree of doctor of science on Dr. Howard Marsh, professor of human anatomy in the university and master of Downing College.

DR. R. T. GLAZEBROOK, F.R.S., director of the National Physical Laboratory, has been elected president of the Faraday Society.

At the seventy-eighth annual general meeting of the Royal Statistical Society, Professor F. Y. Edgeworth was elected president.

THE *Journal* of the American Medical Association states that the friends, the pupils and ophthalmologists of many countries united recently in celebrating the seventy-seventh birthday of Professor Henri Dor, by presenting him with a portrait medal. The reverse of the medal typifies Dor's life-work, as it represents science pushing back the clouds that the light can fall on the child beside it. The background shows Dor's home on the banks of the Rhone at Lyons where he has been professor of ophthalmology since 1876. He was a pupil of both Graefe and Donders, and founded thirty years ago the *Revue Générale d'Ophthalmologie*.

A NEW office, that of administrative geologist, has been created on the U. S. Geological Survey, and Dr. George H. Ashley, Ph.D. (Stanford, '94), chosen to fill it. This position is virtually vice-director of the survey, placing the incumbent in complete charge of the organization during the absence of the director, and in addition giving him charge of certain functions of the organization the whole time. Dr. Ashley has been a geologist of the survey since 1901 except for the years 1910 and 1911, when he was state geologist of Tennessee.

THE following promotions to the rank of geologist of the U. S. Geological Survey have been made: Robert Anderson, B. S. Butler, Adolph Knopf, F. H. Moffit, G. B. Richardson and A. R. Schultz.

DR. CHESTER A. REEDS, for the past four years lecturer and associate in geology at Bryn Mawr College, has been appointed assistant curator of the department of geology and invertebrate paleontology of the American Museum of Natural History. He enters upon his new duties August first, after spending some weeks in Europe visiting museums.

MR. F. W. JONES, has been appointed chief chemist of the purification works of the Fitchburg, Massachusetts, Sewer Department. Mr. Jones was for some time instructor in chemistry at the Worcester Polytechnic Institute. During the past year he has been assistant

chemist at the Worcester sewage purification works.

At a meeting of the Lawes Agricultural Trust Committee, held on June 25, Dr. E. J. Russell, at present Goldsmiths' Company's assistant for soil investigations, was appointed director of the Rothamsted Experimental Station in succession to Mr. A. D. Hall, F.R.S.

THE Mackinnon studentships of the Royal Society for the ensuing year have been awarded to H. M. Kyle, D.Sc. (St. Andrews), for a research on the metamorphosis and origin of the flat fishes, and to Mr. A. L. Hughes, Emmanuel College, Cambridge, for a research on the ionization in mercury vapor produced by ultra-violet light.

THE special board for biology and geology of Cambridge University has nominated Mr. G. R. Mines, M.A., Sidney Sussex College, and Mr. H. M. Fuchs, B.A., Gonville and Caius College, to use the university table at Naples, and Mr. James Gray, B.A., King's College, to occupy the university table at the Laboratory of the Marine Biological Association at Plymouth.

PROFESSOR S. A. MITCHELL, of Columbia University, will spend a year at Yerkes Observatory.

PROFESSOR THEODORE LYMAN, of Harvard University, has gone to the Altai Mountains, on the borders of Siberia and Mongolia, on a hunting expedition. He takes with him Mr. N. Hollister, assistant curator at the National Museum, Washington, who will make zoological collections to be divided between that museum and the Harvard Museum of Comparative Zoology.

ASSOCIATE PROFESSOR FREDERICK STARR, of the University of Chicago, sailed on June 20 for Africa on an expedition for anthropological research. After a visit to Morocco and the Canary Islands, Professor Starr and his party will go directly to Liberia, and thence into the back country, where they will spend the rest of the year, returning about January 1, 1913.

DR. HERBERT MÜLLER, of the Anthropological Museum in Berlin, has gone to China for ethnological researches in Manchuria and eastern Mongolia.

MR. R. H. HOOKER, M.A., has been appointed Newmarch lecturer in statistics at University College for the session 1912-13. The subject of his lectures will be "The Food Supply of the United Kingdom."

LEONARDO DA VINCI'S contributions to the principles of aviation were celebrated in Paris on July 4, when addresses were made by the French prime minister and the Italian ambassador.

THE session of the Chemical Society, London, for 1912-13 will open on October 17 with a memorial lecture in honor of Antoine Henri Becquerel, late honorary and foreign member of the society, to be delivered by Sir Oliver Lodge, F.R.S.

MR. WILLIAM R. SMITH, for sixty years superintendent of the National Botanical Garden, died at Washington on July 7, aged eighty-four years.

PROFESSOR ORVILLE BRIGGS STACY, for forty-two years a member of the faculty of the Brooklyn Polytechnic Institute, holding the chair of natural science and mathematics at the time of his retirement in 1906, has died at the age of eighty years.

DR. THOMAS H. BACHE, great-great-grandson of Benjamin Franklin, a distinguished physician of Philadelphia, has died at the age of eighty-six years.

THE board of trustees announces that the next annual session of the American Medical Association will be held in Minneapolis from June 17 to 20, 1913.

A RECENT addition which has been made to the equipment of the Colorado School of Mines is a new 14-foot Littrow spectrograph, purchased at a cost of \$1,500, through the Vinson Walsh research fund. This fund was given by the late Thomas F. Walsh for the determination and study of rare metals in ores.

A VALUABLE collection of 117 Hawaiian birds has been presented to the University of California by Miss Annie M. Alexander, for inclusion in the California Museum of Vertebrate Zoology. The clearing of forest lands for cultivation in the Hawaiian Islands has resulted in the entire extinction of some of the species represented, so the collection is especially important.

UNIVERSITY AND EDUCATIONAL NEWS

THE late Mr. C. D. Borden, of New York City, has bequeathed \$250,000 to Yale University, from which he graduated in 1864. The clause in his will reads: "I make this bequest without any restrictions, as I have long been of the opinion that the said corporation did not have sufficient funds to provide adequately for its general expenses and especially for proper payment of its instructors."

MR. JOHN ARMSTRONG CHALLONER has conveyed his property in trust, making the University of Virginia and the University of Carolina his residuary legatees, and giving \$10,000 to each of nine other educational institutions.

LORD HALDANE has opened the new Harrison-Hughes Engineering Laboratories at Liverpool University, erected by a gift of about £40,000 from Mr. T. F. Harrison, Mr. J. W. Hughes and Mr. Heath Harrison, the Liverpool shipowners.

It has been decided to establish a chair of agriculture in the University of Queensland, toward which Mr. Robert Philp has offered to give £1,400 and Mr. R. M. Christison £1,000.

MR. WALTER MORRISON, of Baliol College, has given £10,000 to Oxford University for the promotion of the study of agriculture.

THE late Dr. A. W. Verrall, King Edward VII. professor of English literature at Cambridge, left, subject to the life interest of his wife, £1,000 to the university absolutely, and £1,000 to Trinity College absolutely.

AN addition is being made to the Agricultural Building of the University of Illinois by enclosing the court. The structure will be only one story high and will have cement

floors. It will provide reading room, class rooms, museum, etc.

THE Medical School of Trinity College, Dublin, celebrated the bicentennial of its foundation on July 5. Seventy-eight addresses were presented by delegates from other institutions.

DR. ROBERT SHARP, dean of the graduate department of Tulane University, has been elected acting president of the university, succeeding Dr. Edwin B. Craighead, who recently resigned to become president of the University of Montana.

DR. WILLIAM PEPPER, professor of clinical pathology at the University of Pennsylvania, son of the former provost of the university, has been appointed dean of the Medical Department, to succeed Dr. Allen J. Smith, resigned. Dr. Smith will remain professor of pathology, comparative pathology and tropical medicine.

DR. THOMAS F. HUNT, director of the School of Agriculture of the Pennsylvania State College, has been appointed to succeed Dr. E. J. Erickson, dean of the College of Agriculture of the University of California.

DR. ARTHUR I. KENDALL, Boston, has been placed in charge of the research work on tuberculosis in Northwestern University, the chair for which was recently endowed with \$250,000 by James A. Patten, Evanston, Ill.

E. N. ZERN, recently professor of coal mining at the University of Pittsburgh, has been appointed professor of mining at West Virginia University, Morgantown, W. Va.

ANSEL F. HEMENWAY, of the University of Chicago, has been appointed professor of biology and geology at Transylvania University, Lexington, Ky.

DR. OTTO GLASER has been promoted from an assistant professorship in zoology to the rank of junior professor at the University of Michigan, and has been granted \$275 for equipment for his studies on the energetics of embryogenesis.

THE following appointments have recently been made to the faculty of the College of Agriculture, University of Porto Rico: Mr. C.